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Synthesis and activity against mycobacterium tuberculosis of olivacine and oxygenated derivatives

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Abstract

© 2018 by the authors The tetracyclic pyrido[4,3-b]carbazole olivacine and four of its oxygenated derivatives have been synthesized by a late-stage palladium-catalyzed Heck-type cyclization of the pyrrole ring as a key step. In a test for the inhibition of the growth of Mycobacterium tuberculosis, 9-methoxyolivacine showed the most significant inhibitory activity against Mycobacterium tuberculosis, with an MIC90 value of 1.5 μM.

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Keywords

3-b]carbazoles, Catalysis, Cyclization, Inhibitory activity, Olivacine, Palladium, Pyrido[4

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